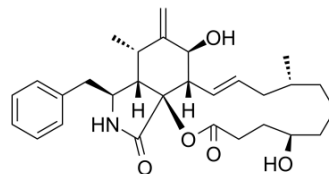


Dihydrocytochalasin B

| | |
|--------------------|---|
| Cat. No.: | HY-N6701 |
| CAS No.: | 39156-67-7 |
| Molecular Formula: | C ₂₉ H ₃₉ NO ₅ |
| Molecular Weight: | 481.62 |
| Target: | Arp2/3 Complex |
| Pathway: | Cytoskeleton |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

Description

Dihydrocytochalasin B (H2CB) is a Cytokinesis inhibitor and changes the morphology of the cells, similar to that of cytochalasin B; does not inhibit glucose transport^[1]. Dihydrocytochalasin B (H2CB) disrupts the actin structure and inhibits the ability of growth factors to stimulate DNA synthesis, reversibly blocks initiation of DNA synthesis^[2]. Dihydrocytochalasin B (H2CB) inhibits active calcium transport and causes a Ca²⁺ increase in the mucosal scrapings^[3].

REFERENCES

- [1]. Atlas SJ, et al. Dihydrocytochalasin B. Biological effects and binding to 3T3 cells. *J Cell Biol.* 1978 Feb;76(2):360-70.
- [2]. Jande SS, et al. Effects of cytochalasin B and dihydrocytochalasin B on calcium transport by intestinal absorptive cells. *Calcif Tissue Int.* 1981;33(2):143-51.
- [3]. Maness PF, et al. Dihydrocytochalasin B disorganizes actin cytoarchitecture and inhibits initiation of DNA synthesis in 3T3 cells. *Cell.* 1982 Aug;30(1):253-62.

Caution: Product has not been fully validated for medical applications. For research use only.

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